

Professional Audio Service Bulletin

Mincom
Division

3M
COMPANY

BULLETIN NO. 11

Subject: DOLBY interface with M-79 Professional Audio Recorder

Applicable to: M-79 Record which interface with DOLBY M series or DOLBY A-type units.

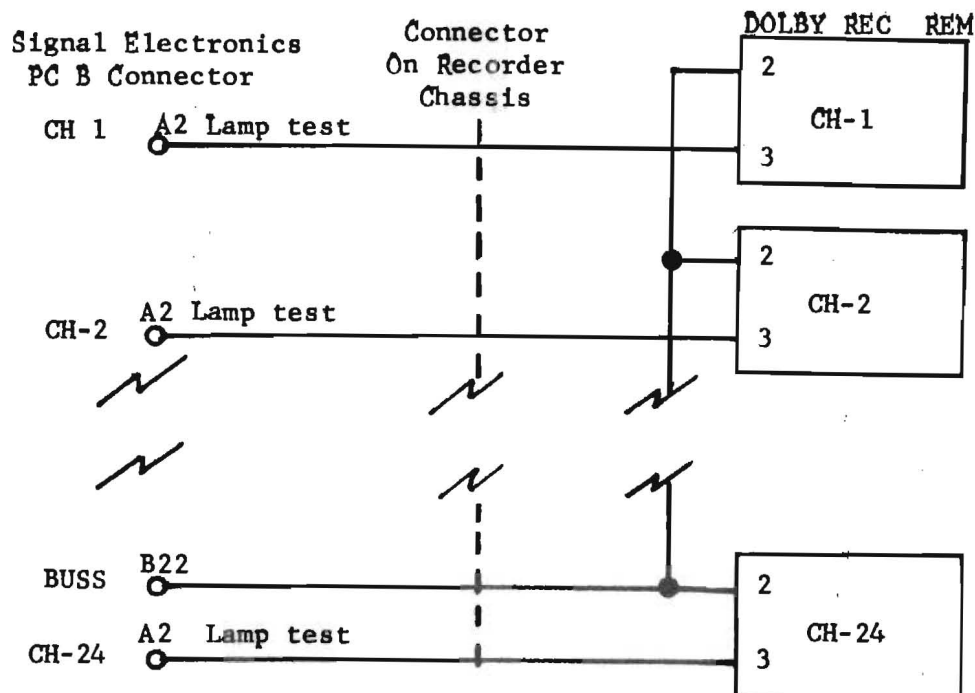
Purpose: Provide remote connection of DOLBY units to M-79 recorder

Remote connection of M series DOLBY units to M-79 (see figure 1).

1. Connect pin A-2 of each channel signal electronics pc board to pin 3 of the DOLBY unit through a suitable connector on the recorder chassis.
2. Connect pin B-22 bus on signal electronic pc board pin 2 of ALL DOLBY units.
3. Insure R102 and R108 in CAT 44 Interface Module are 6.8 K ohms (earlier models had 2.7 K ohm or 3.3 K ohm resistors); if the resistors are not the correct values, replace them with resistors of the correct value.

NOTE: Increasing the resistor values to 6.8 K ohms increases remote sensitivity to 6 volts "ON" and 4 volts "OFF".

4. Correct operation is when the voltage between pin 2 and pin 3 of the DOLBY unit is 10.5 volts "ON" and 0 volts "OFF".



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FIGURE 1

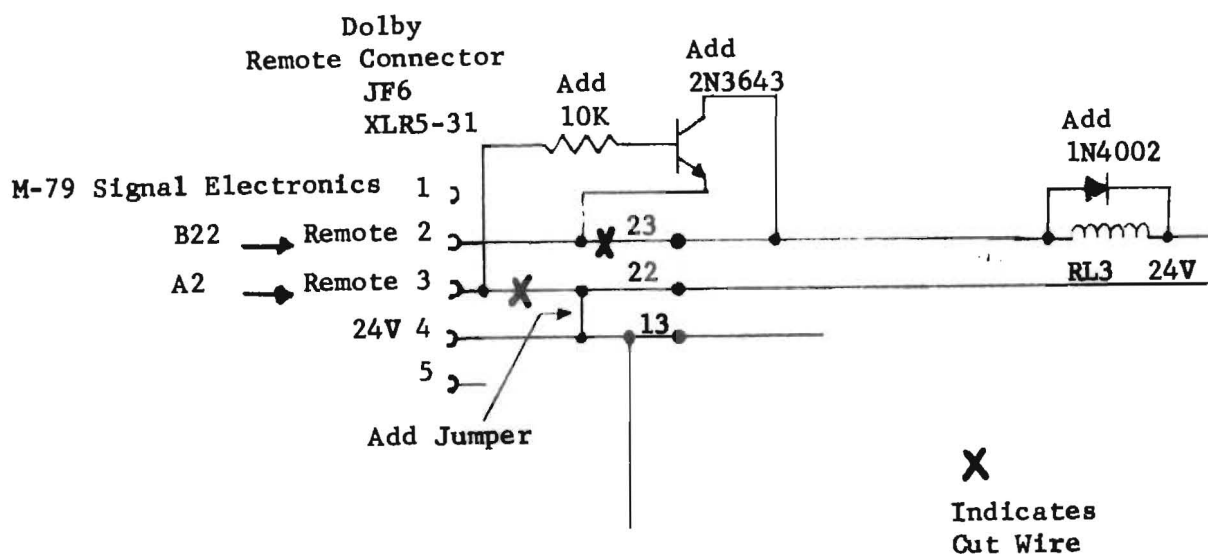
Remote connections of A-type DOLBY units to M-79

1. Connect Pin A2 of each M-79 Signal Electronics PC Board to Pin 3 of the DOLBY Remote Connector through a suitable connector on the recorder chassis.
2. Connect Pin B-22 buss on the M-79 Signal Electronics PC Boards to Pin 2 of ALL DOLBY units.
3. Modify DOLBY interface by adding circuit as shown in Figure 2.
NOTE: Refer to DOLBY 361 Interface circuit in the DOLBY Manual.

Parts Required:

- 1 ea. 2N3643 Transistor
- 1 ea. 10KΩ 1/4W Resistor
- 1 ea. 1N4002 Diode

FIGURE 2



NOTE: Added Circuit may be mounted on a Vector Board inside the DOLBY unit.

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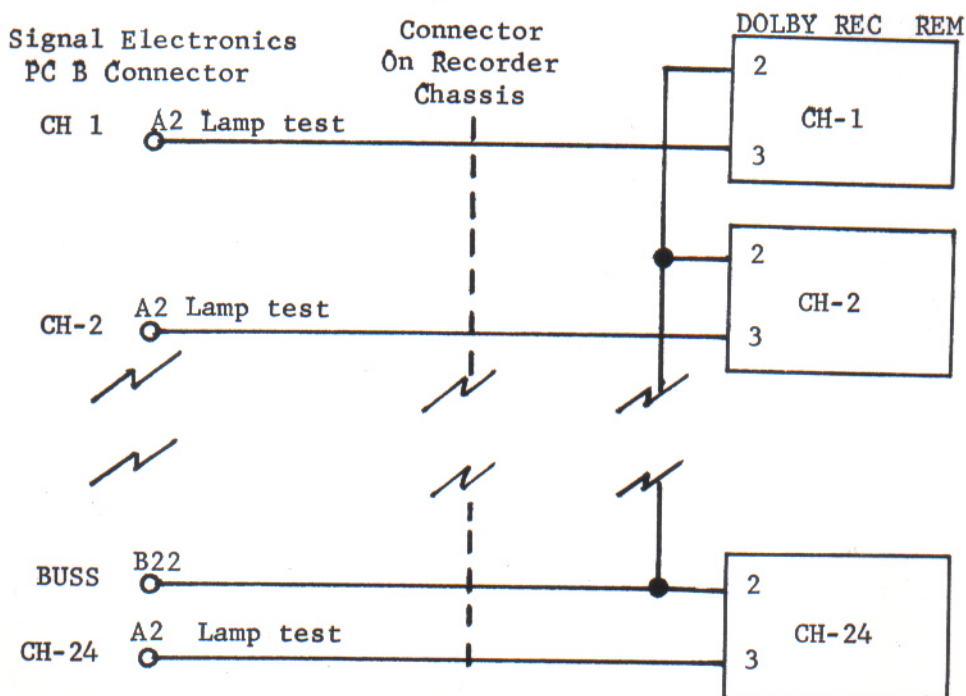


FIGURE 1

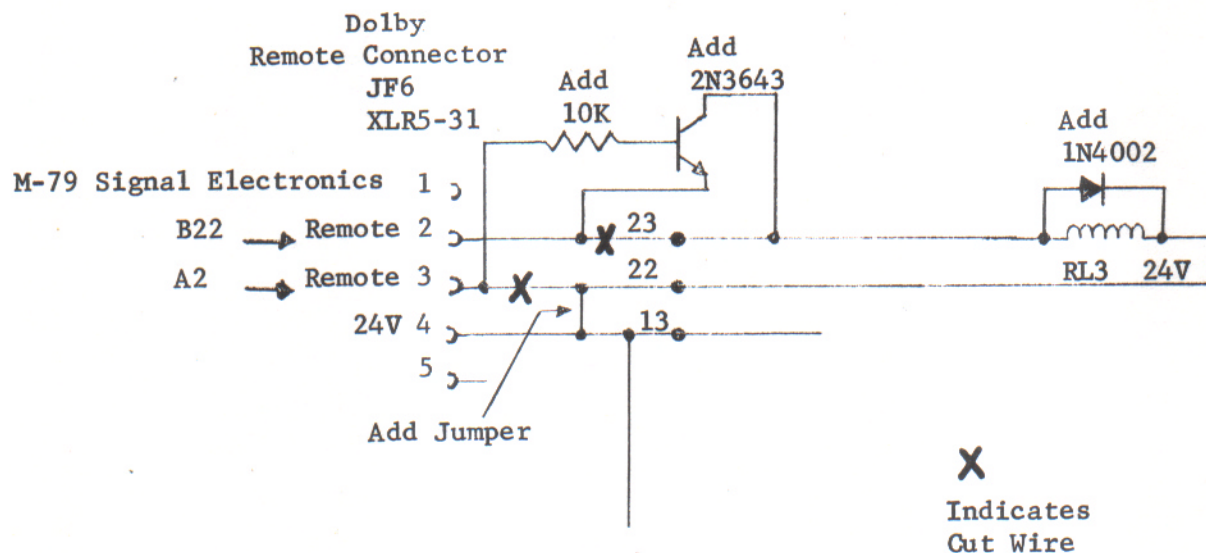
Remote connections of A-type DOLBY units to M-79

1. Connect Pin A2 of each M-79 Signal Electronics PC Board to Pin 3 of the DOLBY Remote Connector through a suitable connector on the recorder chassis.
2. Connect Pin B-22 buss on the M-79 Signal Electronics PC Boards to Pin 2 of ALL DOLBY units.
3. Modify DOLBY interface by adding circuit as shown in Figure 2.
NOTE: Refer to DOLBY 361 Interface circuit in the DOLBY Manual.

Parts Required:

- 1 ea. 2N3643 Transistor
- 1 ea. 10KΩ 1/4W Resistor
- 1 ea. 1N4002 Diode

FIGURE 2



NOTE: Added Circuit may be mounted on a Vector Board inside the DOLBY unit.

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1. Connect pin A-2 of each channel signal electronics pc board to pin 3 of the DOLBY unit through a suitable connector on the recorder chassis.
2. Connect pin B-22 bus on signal electronic pc board pin 2 of ALL DOLBY units.
3. Insure R102 and R108 in CAT 44 Interface Module are 6.8 K ohms (earlier models had 2.7 K ohm or 3.3 K ohm resistors); if the resistors are not the correct values, replace them with resistors of the correct value.

NOTE: Increasing the resistor values to 6.8 K ohms increases remote sensitivity to 6 volts "ON" and 4 volts "OFF".

4. Correct operation is when the voltage between pin 2 and pin 3 of the DOLBY unit is 10.5 volts "ON" and 0 volts "OFF".

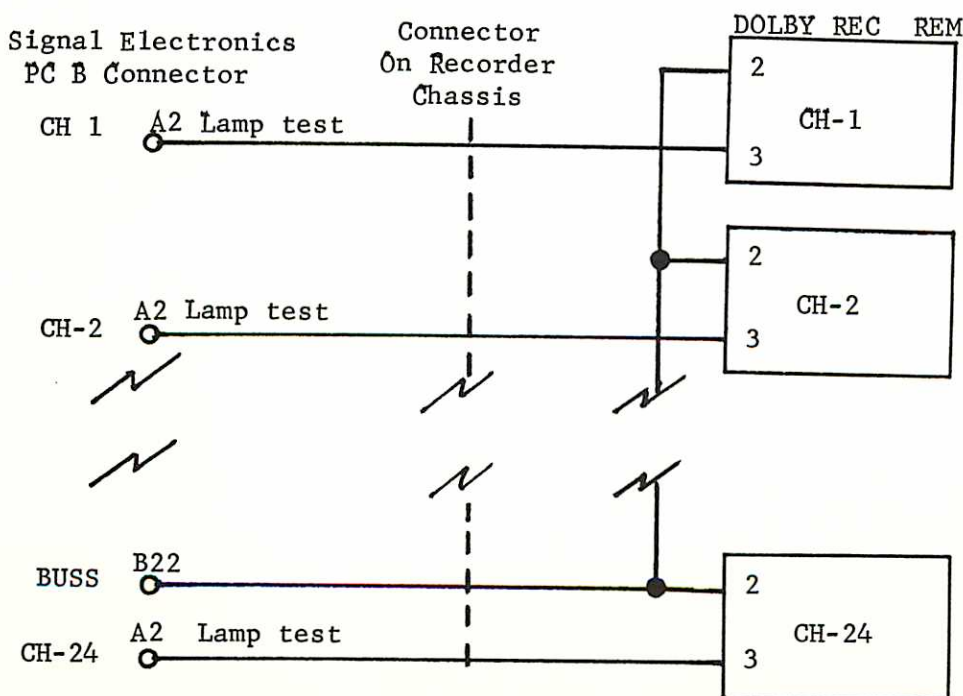


FIGURE 1

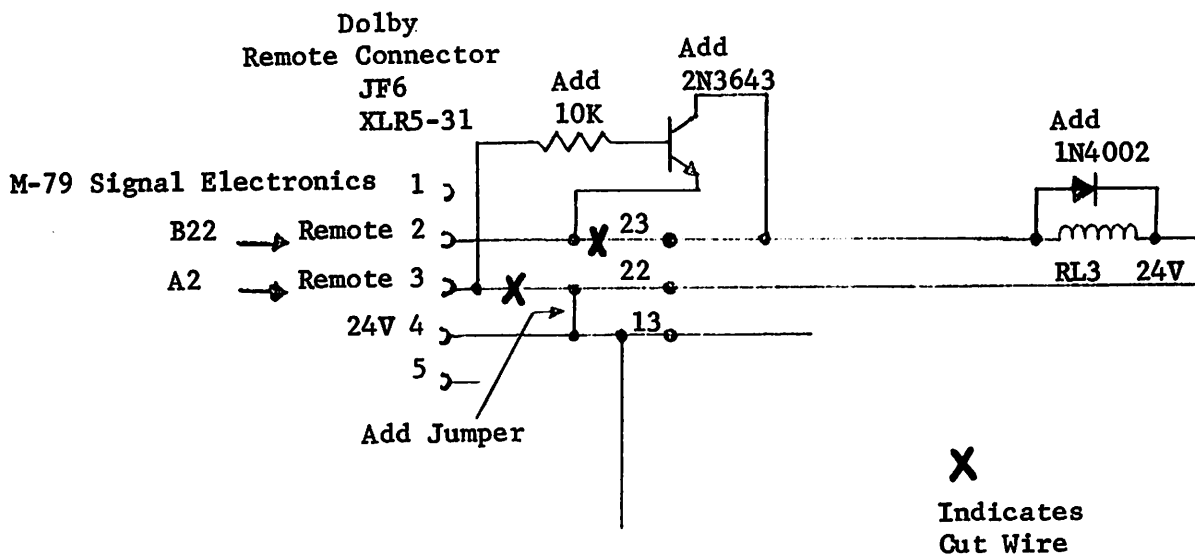
Remote connections of A-type DOLBY units to M-79

1. Connect Pin A2 of each M-79 Signal Electronics PC Board to Pin 3 of the DOLBY Remote Connector through a suitable connector on the recorder chassis.
2. Connect Pin B-22 buss on the M-79 Signal Electronics PC Boards to Pin 2 of ALL DOLBY units.
3. Modify DOLBY interface by adding circuit as shown in Figure 2.
NOTE: Refer to DOLBY 361 Interface circuit in the DOLBY Manual.

Parts Required:

- 1 ea. 2N3643 Transistor
- 1 ea. 10K Ω 1/4W Resistor
- 1 ea. 1N4002 Diode

FIGURE 2



NOTE: Added Circuit may be mounted on a Vector Board inside the DOLBY unit.